

0322 #2



OIPÉ

RAW SEQUENCE LISTING

DATE: 05/03/2002

PATENT APPLICATION: US/10/004,860

TIME: 15:28:43

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3 <110> APPLICANT: Young et al.
6 <120> TITLE OF INVENTION: 207 Human Secreted Proteins
9 <130> FILE REFERENCE: PZ007P1
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13 <141> CURRENT FILING DATE: 2001-12-07
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168 <210> SEQ ID NO: 1
169 <211> LENGTH: 733
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176 tctcccgagc tcttgaggtc acatgcgtgg tgggtggacgt aagccacgaa gacctgagg      180
178 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg      240
179 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact      300
180 ggctgaatgg caaggagtag aagtgcagg tctccaacaa agccctccca acccccatcg      360
181 agaaaacccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc      420
182 catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct      480
183 atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga      540
184 ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg      600
185 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc      660
186 acaaccacta cagcgagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc      720
187 gactctagag gat                                     733
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192 <212> TYPE: PRT
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195 <220> FEATURE:
196 <221> NAME/KEY: Site
197 <222> LOCATION: (3)
198 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino
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202   1           5
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205 <211> LENGTH: 86
206 <212> TYPE: DNA
207 <213> ORGANISM: Homo sapiens
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211 cccgaaatat ctgccatctc aattag                                     86
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215 <211> LENGTH: 27
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217 <213> ORGANISM: Homo sapiens
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224 <211> LENGTH: 271
225 <212> TYPE: DNA
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230 aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc      120
231 gccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat      180
232 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt      240
233 ttttgagggc ctaggctttt gcaaaaagct t                                     271

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Output Set: N:\CRF3\05032002\J004860.raw

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270 ccattctcaat tag 73
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276 <213> ORGANISM: Homo sapiens
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280 caattagtca gcaaccatag tcccgccctt aactccgccc atcccgcccc taactccgcc 120
281 cagttccgcc cattctccgc ccatggctg actaattttt tttatttatg cagaggccga 180
282 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
283 cttttgcaaa aagctt 256
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293 ctaagtccag tcacacattt cccaaagtct ctctttgtca taaccctggg ctggctgggt 120
294 ttgrggrctt gagaatgggt cagggactcc aggccaaagtc caacagagac cccaaaccca 180
295 ccacacacca gcagccacaa cctcaccacc aacaaagagg acttttgttg ggccacaagt 240
296 aagaggtcat ttctggaatg gactcagacc tttaaacagg agagttgagc acttccagks 300
297 agttttttaag caaggcatgg ggaacagggg atagaacctt tcaaagaggt tgcccagaga 360
298 aaagctgggc ctcttgcatc cggcttcctt ggagcagcct cttctggcag aaagccatca 420
299 ggtgctcaat catcttctcc tggccaaggc tctgaccatg cttagtactg gaatagaggt 480
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303	tctagaatct	ttgagtgcct	ggctttccaa	ggatactgcg	gagactctgg	ccaagctgat	720
304	gamctttctga	artgtcactg	gcaccatagt	caacaagaac	caccattcac	tgagtagcta	780
305	atgggttttg	ggcctgggac	attccatctg	aggtccttcc	tgaacatgtc	actccacagc	840
306	agaggaccgg	ttgcagctta	cccagaacca	ctcctccagg	agagctggat	gttttgctgtg	900
307	caacaccttg	agcactgact	gctattgttc	aaaaaaaagcc	tttgctgcat	tcggaggact	960
308	gccccgtgcc	ctgaggtgac	ttcctaacta	tgtggtttca	ttagcgaatt	tattttttgt	1020
309	gctgggtgga	catttgtatt	ttgttagggt	gctgtttaag	ctcaagtttg	ctgtgctctc	1080
310	tgacgtaca	aaacatcttg	gcatatttaa	gaktggcttt	tataaatagc	tttattctga	1140
311	tattaatcag	attcccaact	ttactgagaa	ttaaggactg	gggtacttta	aagaaatgca	1200
312	aatagcaatt	gaagaaccac	tgctgcaggt	ggtagccctg	gctagactga	attacactag	1260
313	aaatcagcca	gaaggaagcg	tccttgggat	cccagatcac	tccttttttt	ttttttttta	1320
314	aaaggggcag	ccccttgatg	gctcatctct	ctgaataaca	gttacgtctt	catatcgata	1380
315	ccagatgcct	tcctcatcat	gccactgaag	ccactacca	ccttcaagaa	catgccaac	1440
316	tctgtcagat	tcacttacct	acaaacaagg	aggcacgttt	ggcacaaaag	gttgctctcc	1500
317	aggtccaagt	ggactctaca	gagtgcctga	cctcaacaca	ctggattcca	ggtggactgg	1560
318	accaagagca	ggcaaagaca	cggaactga	aaaactccac	agggtttgga	gaatagaaat	1620
319	gaaaagccac	gtcatataac	tcaagaataa	atggtgtttt	ggaaatttta	aaattatcat	1680
320	cgaaggtggt	gaaactatgt	caggcccaaa	tgaaaggaaa	tcgccagttg	gggatgaaat	1740
321	cacagagcct	gtgttttatg	atatggttgg	atgtccactg	atgaaatttt	aaaggagttt	1800
322	catttttaaa	agtgcgcagt	attctacata	tgagaattct	ttaggccaag	aaactgtcct	1860
323	tggtcagag	gtgttgggaa	ttaaagcaga	gagaagccat	tcgtgatgct	tagaaccaag	1920
324	gatggtcatg	tacacaaaga	ccatcgagac	ggccattctt	gtttacaaaa	cacttaccaa	1980
325	gaaagcactt	tgtaggggaa	ctttagtaag	ttcttctcat	ttcattatgt	ttcttccaag	2040
326	gaaacaggag	agactgaatt	aataattctc	tccttctctc	taagcacttt	taaaataata	2100
327	aagtacatct	tgaaatttgg	gggggcatct	ctgattttaa	aaaagaaaaa	ggctgcttga	2160
328	tgatgtttat	gcagagacac	tctgcctctg	gtggctgcag	agcaataccc	aagcctcatt	2220
329	tggaaggctc	aacatttggg	attgcacttt	aattgattaa	tcctcaattc	atgtggcctt	2280
330	acgggatggt	gggtctggga	ccccatttca	ttcttatctg	ccaaagaatt	atctagaagc	2340
331	acatcaaata	ccagcacccc	acctgcacaa	tgggggtgga	aaacttttgt	atccctaagc	2400
332	atattatttt	atagtgtctg	ccatgccatg	tggaaatact	ttatttttaa	cctcaggatt	2460
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344	<222> LOCATION: (839)						
345	<223> OTHER INFORMATION: n equals a,t,g, or c						
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350	aacatgtaat	gaatgtagta	atagtaatta	ttttattttc	ttttgattca	gttgggacta	180
351	tgttcagctg	taacagaata	cccaaaataa	ctgtttttaa	caaattaaag	tttwgttgtg	240
352	aagttttgtt	acgaattcag	acaatccagg	gcttttatag	atgcaccagg	atcagcaggt	300
353	acaaaggcat	ctttcctgat	ttctgccagt	ctcaatgcat	gggttgcaat	ccagartcca	360

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:16; N Pos. 25,478,661
Seq#:17; N Pos. 507
Seq#:18; N Pos. 635
Seq#:19; N Pos. 930
Seq#:21; N Pos. 1470
Seq#:23; N Pos. 301
Seq#:24; N Pos. 834
Seq#:26; N Pos. 1022
Seq#:27; N Pos. 1892,1930,1934
Seq#:28; N Pos. 17
Seq#:29; N Pos. 110,3690,3716
Seq#:30; N Pos. 1628
Seq#:31; N Pos. 1385,1395
Seq#:32; N Pos. 24,666,682,3181,3184
Seq#:33; N Pos. 957,964
Seq#:34; N Pos. 1767,1768
Seq#:35; N Pos. 6,8,870,877
Seq#:37; N Pos. 787
Seq#:39; N Pos. 794,806,810
Seq#:40; N Pos. 69
Seq#:42; N Pos. 196,226,302,596,952
Seq#:43; N Pos. 1801
Seq#:45; N Pos. 976
Seq#:48; N Pos. 593,2049
Seq#:49; N Pos. 35,570
Seq#:50; N Pos. 1486
Seq#:53; N Pos. 17,1514,1551,1556
Seq#:55; N Pos. 751,879,888,897,899,901
Seq#:56; N Pos. 328,336,341,788
Seq#:57; N Pos. 250,1051,1052
Seq#:58; N Pos. 3,6,32,751,770,784
Seq#:59; N Pos. 345,1024,1098,1186
Seq#:60; N Pos. 410,476
Seq#:61; N Pos. 24,39,548,560,562,584
Seq#:62; N Pos. 158,159,202
Seq#:63; N Pos. 2,4,12,738,776
Seq#:64; N Pos. 565,566
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Seq#:66; N Pos. 262,674
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Seq#:86; N Pos. 1020,1024,1032
Seq#:87; N Pos. 805
Seq#:90; N Pos. 12,123,1522,1527
Seq#:92; N Pos. 62,126
Seq#:96; N Pos. 416,471,490,732,835
Seq#:97; N Pos. 332
Seq#:99; N Pos. 24,39,255
Seq#:104; N Pos. 544,774
Seq#:106; N Pos. 724
Seq#:107; N Pos. 1,6
Seq#:109; N Pos. 19,21,47,607,610
Seq#:110; N Pos. 67,2620
Seq#:111; N Pos. 1579,2226
Seq#:112; N Pos. 123,621,640
Seq#:115; N Pos. 79,2297,3679
Seq#:116; N Pos. 51,476,1136
Seq#:119; N Pos. 147,376,395,1101
Seq#:121; N Pos. 2605
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Seq#:215; N Pos. 7,9,1241,1247
Seq#:216; N Pos. 1281,1704
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DATE: 05/03/2002
TIME: 15:28:44

Input Set : N:\Cr3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:244; N Pos. 2459,2473,2475,2478
Seq#:245; N Pos. 133,867,1338
Seq#:246; N Pos. 651
Seq#:247; N Pos. 20,35,36,37
Seq#:248; N Pos. 776,907,1288
Seq#:249; Xaa Pos. 31
Seq#:250; Xaa Pos. 36,78,116
Seq#:251; Xaa Pos. 103
Seq#:252; Xaa Pos. 7,13,22
Seq#:253; Xaa Pos. 32,37
Seq#:254; Xaa Pos. 4,12,128
Seq#:255; Xaa Pos. 8,67
Seq#:256; Xaa Pos. 69
Seq#:257; Xaa Pos. 36,37,44
Seq#:258; Xaa Pos. 51
Seq#:259; Xaa Pos. 43
Seq#:260; Xaa Pos. 61
Seq#:261; Xaa Pos. 36
Seq#:262; Xaa Pos. 38
Seq#:263; Xaa Pos. 5,211
Seq#:264; Xaa Pos. 548
Seq#:266; Xaa Pos. 8,40
Seq#:267; Xaa Pos. 99
Seq#:268; Xaa Pos. 131
Seq#:269; Xaa Pos. 14,19,21
Seq#:270; Xaa Pos. 109,118,122,127
Seq#:271; Xaa Pos. 219
Seq#:272; Xaa Pos. 41,48,50
Seq#:273; Xaa Pos. 7,20,122
Seq#:274; Xaa Pos. 53,88
Seq#:275; Xaa Pos. 26
Seq#:276; Xaa Pos. 29
Seq#:277; Xaa Pos. 14,44
Seq#:278; Xaa Pos. 307,363
Seq#:279; Xaa Pos. 128
Seq#:280; Xaa Pos. 54
Seq#:282; Xaa Pos. 26
Seq#:285; Xaa Pos. 6,38,49
Seq#:286; Xaa Pos. 52
Seq#:287; Xaa Pos. 32
Seq#:288; Xaa Pos. 52,57
Seq#:289; Xaa Pos. 22
Seq#:290; Xaa Pos. 51
Seq#:292; Xaa Pos. 44,66
Seq#:293; Xaa Pos. 75,187,229,232,235,236,237,257
Seq#:294; Xaa Pos. 78,80,81,82,103
Seq#:295; Xaa Pos. 33
Seq#:296; Xaa Pos. 10,43
Seq#:297; Xaa Pos. 21

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/004,860

DATE: 05/03/2002
TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:298; Xaa Pos. 70
Seq#:299; Xaa Pos. 75
Seq#:300; Xaa Pos. 33
Seq#:301; Xaa Pos. 17
Seq#:302; Xaa Pos. 17
Seq#:303; Xaa Pos. 9
Seq#:304; Xaa Pos. 12
Seq#:305; Xaa Pos. 35
Seq#:306; Xaa Pos. 15
Seq#:307; Xaa Pos. 44
Seq#:309; Xaa Pos. 34
Seq#:310; Xaa Pos. 137
Seq#:311; Xaa Pos. 14,37,58
Seq#:312; Xaa Pos. 35
Seq#:313; Xaa Pos. 90
Seq#:314; Xaa Pos. 95
Seq#:315; Xaa Pos. 44
Seq#:316; Xaa Pos. 31
Seq#:317; Xaa Pos. 69,113
Seq#:319; Xaa Pos. 35
Seq#:320; Xaa Pos. 35
Seq#:321; Xaa Pos. 82
Seq#:322; Xaa Pos. 47,70,72
Seq#:323; Xaa Pos. 10,34
Seq#:324; Xaa Pos. 111,112,115
Seq#:325; Xaa Pos. 98,99,100
Seq#:326; Xaa Pos. 36,65
Seq#:328; Xaa Pos. 36
Seq#:329; Xaa Pos. 68
Seq#:330; Xaa Pos. 105
Seq#:332; Xaa Pos. 14,39
Seq#:333; Xaa Pos. 58,72
Seq#:334; Xaa Pos. 62
Seq#:335; Xaa Pos. 286
Seq#:336; Xaa Pos. 55
Seq#:338; Xaa Pos. 120
Seq#:339; Xaa Pos. 33
Seq#:341; Xaa Pos. 18
Seq#:342; Xaa Pos. 87
Seq#:343; Xaa Pos. 538
Seq#:344; Xaa Pos. 202
Seq#:347; Xaa Pos. 48
Seq#:348; Xaa Pos. 288,334
Seq#:349; Xaa Pos. 4,193,200
Seq#:350; Xaa Pos. 24
Seq#:351; Xaa Pos. 85,131,143
Seq#:352; Xaa Pos. 95
Seq#:353; Xaa Pos. 38
Seq#:354; Xaa Pos. 39

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/004,860DATE: 05/03/2002
TIME: 15:28:44Input Set : N:\Cr3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:355; Xaa Pos. 35,71
Seq#:357; Xaa Pos. 50,53,59,60,61,64,65,90
Seq#:358; Xaa Pos. 41
Seq#:359; Xaa Pos. 56
Seq#:360; Xaa Pos. 4,222
Seq#:361; Xaa Pos. 64
Seq#:362; Xaa Pos. 111,124,125,135,144,154
Seq#:363; Xaa Pos. 17
Seq#:364; Xaa Pos. 10
Seq#:365; Xaa Pos. 14
Seq#:366; Xaa Pos. 5,6,7,10,18
Seq#:367; Xaa Pos. 62
Seq#:368; Xaa Pos. 33
Seq#:369; Xaa Pos. 79
Seq#:370; Xaa Pos. 35
Seq#:371; Xaa Pos. 22
Seq#:372; Xaa Pos. 82
Seq#:373; Xaa Pos. 7,42,43
Seq#:374; Xaa Pos. 4,7,20,25,28,31
Seq#:375; Xaa Pos. 32,57
Seq#:376; Xaa Pos. 14
Seq#:378; Xaa Pos. 45
Seq#:379; Xaa Pos. 15
Seq#:380; Xaa Pos. 34
Seq#:381; Xaa Pos. 14,62
Seq#:382; Xaa Pos. 207
Seq#:383; Xaa Pos. 20,23,31
Seq#:384; Xaa Pos. 43
Seq#:385; Xaa Pos. 255
Seq#:386; Xaa Pos. 2,20
Seq#:387; Xaa Pos. 6,64
Seq#:388; Xaa Pos. 40
Seq#:389; Xaa Pos. 35
Seq#:390; Xaa Pos. 11
Seq#:391; Xaa Pos. 64
Seq#:392; Xaa Pos. 19
Seq#:394; Xaa Pos. 17
Seq#:395; Xaa Pos. 84
Seq#:396; Xaa Pos. 19,21
Seq#:397; Xaa Pos. 29
Seq#:398; Xaa Pos. 34
Seq#:399; Xaa Pos. 47
Seq#:400; Xaa Pos. 21,25
Seq#:401; Xaa Pos. 68
Seq#:403; Xaa Pos. 15
Seq#:405; Xaa Pos. 68,72,83,103,110,121,123,126,134,154
Seq#:408; Xaa Pos. 447
Seq#:410; Xaa Pos. 24
Seq#:411; Xaa Pos. 35

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/004,860

DATE: 05/03/2002
TIME: 15:28:44

Input Set : N:\Crif3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:413; Xaa Pos. 25
Seq#:414; Xaa Pos. 79
Seq#:415; Xaa Pos. 20,28
Seq#:416; Xaa Pos. 100
Seq#:417; Xaa Pos. 144,263
Seq#:418; Xaa Pos. 33
Seq#:419; Xaa Pos. 53,80
Seq#:420; Xaa Pos. 82,83,95
Seq#:423; Xaa Pos. 29,31
Seq#:424; Xaa Pos. 179
Seq#:429; Xaa Pos. 61,105,117,219
Seq#:430; Xaa Pos. 51
Seq#:431; Xaa Pos. 27,50
Seq#:432; Xaa Pos. 33,39,55,70
Seq#:433; Xaa Pos. 40
Seq#:435; Xaa Pos. 38
Seq#:436; Xaa Pos. 35
Seq#:437; Xaa Pos. 32
Seq#:438; Xaa Pos. 127
Seq#:439; Xaa Pos. 10,69
Seq#:440; Xaa Pos. 92
Seq#:441; Xaa Pos. 264,296,380
Seq#:442; Xaa Pos. 17,21,23,24
Seq#:443; Xaa Pos. 33,47
Seq#:445; Xaa Pos. 144
Seq#:446; Xaa Pos. 37
Seq#:447; Xaa Pos. 31,37
Seq#:448; Xaa Pos. 47,192
Seq#:449; Xaa Pos. 31
Seq#:450; Xaa Pos. 44,46,77,78,101
Seq#:451; Xaa Pos. 37
Seq#:452; Xaa Pos. 42
Seq#:454; Xaa Pos. 25
Seq#:456; Xaa Pos. 42
Seq#:457; Xaa Pos. 15,66
Seq#:459; Xaa Pos. 31
Seq#:460; Xaa Pos. 57
Seq#:461; Xaa Pos. 338,416
Seq#:462; Xaa Pos. 56
Seq#:463; Xaa Pos. 80,93,206
Seq#:464; Xaa Pos. 38
Seq#:465; Xaa Pos. 136
Seq#:466; Xaa Pos. 17,18,25,50
Seq#:467; Xaa Pos. 27,49,71
Seq#:468; Xaa Pos. 59
Seq#:469; Xaa Pos. 27,34,35,37,38,46,59
Seq#:470; Xaa Pos. 17,62
Seq#:471; Xaa Pos. 103,302,305,316
Seq#:472; Xaa Pos. 24

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/004,860

DATE: 05/03/2002
TIME: 15:28:44

Input Set : N:\Cr3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:473; Xaa Pos. 10
Seq#:474; Xaa Pos. 36,44,85
Seq#:475; Xaa Pos. 26
Seq#:476; Xaa Pos. 34
Seq#:477; Xaa Pos. 151,172
Seq#:478; Xaa Pos. 8,27,61
Seq#:479; Xaa Pos. 3
Seq#:480; Xaa Pos. 11,35,38,96
Seq#:481; Xaa Pos. 159,171
Seq#:482; Xaa Pos. 111,575
Seq#:483; Xaa Pos. 29,31,43,92
Seq#:484; Xaa Pos. 13,14
Seq#:485; Xaa Pos. 54
Seq#:486; Xaa Pos. 7,11,16,22
Seq#:490; Xaa Pos. 9
Seq#:491; Xaa Pos. 5
Seq#:492; Xaa Pos. 87,95
Seq#:494; Xaa Pos. 37,45
Seq#:504; Xaa Pos. 39,40,112
Seq#:505; Xaa Pos. 65
Seq#:506; Xaa Pos. 39,40
Seq#:508; Xaa Pos. 17
Seq#:514; Xaa Pos. 18
Seq#:520; Xaa Pos. 4
Seq#:521; Xaa Pos. 4
Seq#:545; Xaa Pos. 10,17
Seq#:547; Xaa Pos. 8,34,38
Seq#:548; Xaa Pos. 8,34,38
Seq#:551; Xaa Pos. 16,17,20,24,36,43
Seq#:552; Xaa Pos. 31
Seq#:553; Xaa Pos. 68,124,211
Seq#:554; Xaa Pos. 35
Seq#:558; Xaa Pos. 320,334,337,339,341,345,350,352,355,360
Seq#:563; Xaa Pos. 36
Seq#:573; Xaa Pos. 409
Seq#:579; Xaa Pos. 19
Seq#:587; Xaa Pos. 23,35
Seq#:588; Xaa Pos. 25,40,42,174,186
Seq#:589; Xaa Pos. 44,81,125,142
Seq#:613; Xaa Pos. 35,71
Seq#:615; Xaa Pos. 43,155
Seq#:621; Xaa Pos. 30,31,34,37
Seq#:627; Xaa Pos. 77
Seq#:629; Xaa Pos. 22
Seq#:633; Xaa Pos. 56,57,60,83,84,165
Seq#:635; Xaa Pos. 77
Seq#:637; Xaa Pos. 7
Seq#:639; Xaa Pos. 15
Seq#:644; Xaa Pos. 105,115

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/004,860

DATE: 05/03/2002
TIME: 15:28:44

Input Set : N:\Crif3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:647; Xaa Pos. 8,13
Seq#:652; Xaa Pos. 131,145
Seq#:659; Xaa Pos. 10
Seq#:667; Xaa Pos. 105
Seq#:672; Xaa Pos. 8,145
Seq#:677; Xaa Pos. 87
Seq#:688; Xaa Pos. 12
Seq#:689; Xaa Pos. 61
Seq#:690; Xaa Pos. 56
Seq#:699; Xaa Pos. 83
Seq#:703; Xaa Pos. 27,28,29,30,31,32,33,34,35,36,37,38
Seq#:711; Xaa Pos. 29
Seq#:713; Xaa Pos. 76,80,90,98,113
Seq#:718; N Pos. 24
Seq#:728; Xaa Pos. 8
Seq#:729; Xaa Pos. 46,50
Seq#:730; Xaa Pos. 34,38
Seq#:733; Xaa Pos. 127
Seq#:736; Xaa Pos. 48
Seq#:758; Xaa Pos. 26
Seq#:762; Xaa Pos. 67,86
Seq#:767; Xaa Pos. 17
Seq#:769; Xaa Pos. 46
Seq#:770; Xaa Pos. 27,38
Seq#:780; Xaa Pos. 45,46,47
Seq#:781; Xaa Pos. 34,66,79
Seq#:784; Xaa Pos. 90
Seq#:787; Xaa Pos. 43,60
Seq#:788; Xaa Pos. 41,97,103
Seq#:790; Xaa Pos. 8
Seq#:791; Xaa Pos. 7
Seq#:792; Xaa Pos. 2,24,45,46
Seq#:793; Xaa Pos. 53
Seq#:808; Xaa Pos. 48,55
Seq#:809; Xaa Pos. 5
Seq#:811; Xaa Pos. 72
Seq#:812; Xaa Pos. 16,38
Seq#:815; Xaa Pos. 72,111,127,149
Seq#:817; Xaa Pos. 12,28,50
Seq#:878; Xaa Pos. 197
Seq#:879; Xaa Pos. 178
Seq#:904; Xaa Pos. 16,27,65
Seq#:905; Xaa Pos. 7
Seq#:907; Xaa Pos. 4
Seq#:938; Xaa Pos. 21
Seq#:940; Xaa Pos. 124
Seq#:941; Xaa Pos. 47
Seq#:944; Xaa Pos. 124,178
Seq#:945; Xaa Pos. 10

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/004,860

DATE: 05/03/2002
TIME: 15:28:44

Input Set : N:\Cr3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:958; Xaa Pos. 10
Seq#:959; Xaa Pos. 10
Seq#:965; Xaa Pos. 25,26,90,94,105,120
Seq#:966; Xaa Pos. 25,26
Seq#:968; Xaa Pos. 11,15,26,41
Seq#:971; Xaa Pos. 2,3,4
Seq#:975; Xaa Pos. 37
Seq#:977; Xaa Pos. 14
Seq#:978; Xaa Pos. 29
Seq#:999; Xaa Pos. 19,62
Seq#:1002; Xaa Pos. 19
Seq#:1003; Xaa Pos. 33
Seq#:1007; Xaa Pos. 20,63
Seq#:1008; Xaa Pos. 259,312
Seq#:1010; Xaa Pos. 135
Seq#:1011; Xaa Pos. 65,118
Seq#:1012; Xaa Pos. 15,258
Seq#:1015; Xaa Pos. 42
Seq#:1017; Xaa Pos. 34,46,47,65
Seq#:1036; Xaa Pos. 189
Seq#:1039; Xaa Pos. 63
Seq#:1041; Xaa Pos. 96,97,98,99,100,101,102,103,104,105,106,107,108,109,110
Seq#:1041; Xaa Pos. 111,112,130
Seq#:1043; Xaa Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,46
Seq#:1056; Xaa Pos. 130
Seq#:1058; Xaa Pos. 42
Seq#:1059; Xaa Pos. 130
Seq#:1060; Xaa Pos. 112
Seq#:1079; Xaa Pos. 152,314,359
Seq#:1081; Xaa Pos. 42
Seq#:1082; Xaa Pos. 75
Seq#:1083; Xaa Pos. 8
Seq#:1084; Xaa Pos. 10
Seq#:1085; Xaa Pos. 64
Seq#:1088; Xaa Pos. 94
Seq#:1092; Xaa Pos. 73
Seq#:1094; Xaa Pos. 83,136
Seq#:1097; Xaa Pos. 11,28,67
Seq#:1103; Xaa Pos. 112,231
Seq#:1108; Xaa Pos. 25
Seq#:1109; Xaa Pos. 53
Seq#:1112; Xaa Pos. 28
Seq#:1115; Xaa Pos. 16,24
Seq#:1116; Xaa Pos. 11,15,35,36,39,40,45,91,255,256,257,258
Seq#:1117; Xaa Pos. 52,164,209,210,211
Seq#:1118; Xaa Pos. 151,197,198,202,203,206,207,227
Seq#:1135; Xaa Pos. 50
Seq#:1136; Xaa Pos. 16
Seq#:1152; Xaa Pos. 21,22

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/004,860

DATE: 05/03/2002
TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:1159; Xaa Pos. 103,153
Seq#:1161; Xaa Pos. 22
Seq#:1162; Xaa Pos. 109,159
Seq#:1169; Xaa Pos. 22,34,102
Seq#:1170; Xaa Pos. 22
Seq#:1171; Xaa Pos. 22
Seq#:1172; Xaa Pos. 22
Seq#:1173; Xaa Pos. 22
Seq#:1174; Xaa Pos. 22
Seq#:1180; Xaa Pos. 114,182,194
Seq#:1202; Xaa Pos. 49,50,51,52,53

VARIABLE LOCATION SUMMARY

DATE: 05/03/2002

PATENT APPLICATION: US/10/004,860

TIME: 15:28:44

Input Set : N:\Crif3\RULE60\10004860.raw

Output Set: N:\CRF3\05032002\J004860.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:2; Xaa Pos. 3
Seq#:12; N Pos. 839
Seq#:14; N Pos. 2,19,87,89,525
Seq#:16; N Pos. 25,478,661
Seq#:17; N Pos. 507
Seq#:18; N Pos. 635
Seq#:19; N Pos. 930
Seq#:21; N Pos. 1470
Seq#:23; N Pos. 301
Seq#:24; N Pos. 834
Seq#:26; N Pos. 1022
Seq#:27; N Pos. 1892,1930,1934
Seq#:28; N Pos. 17
Seq#:29; N Pos. 110,3690,3716
Seq#:30; N Pos. 1628
Seq#:31; N Pos. 1385,1395
Seq#:32; N Pos. 24,666,682,3181,3184
Seq#:33; N Pos. 957,964
Seq#:34; N Pos. 1767,1768
Seq#:35; N Pos. 6,8,870,877
Seq#:37; N Pos. 787
Seq#:39; N Pos. 794,806,810
Seq#:40; N Pos. 69
Seq#:42; N Pos. 196,226,302,596,952
Seq#:43; N Pos. 1801
Seq#:45; N Pos. 976
Seq#:48; N Pos. 593,2049
Seq#:49; N Pos. 35,570
Seq#:50; N Pos. 1486
Seq#:53; N Pos. 17,1514,1551,1556
Seq#:55; N Pos. 751,879,888,897,899,901
Seq#:56; N Pos. 328,336,341,788
Seq#:57; N Pos. 250,1051,1052
Seq#:58; N Pos. 3,6,32,751,770,784
Seq#:59; N Pos. 345,1024,1098,1186
Seq#:60; N Pos. 410,476
Seq#:61; N Pos. 24,39,548,560,562,584
Seq#:62; N Pos. 158,159,202
Seq#:63; N Pos. 2,4,12,738,776
Seq#:64; N Pos. 565,566
Seq#:65; N Pos. 1,13,15
Seq#:66; N Pos. 262,674
Seq#:67; N Pos. 668,745,1015,1088,1110,1113

VARIABLE LOCATION SUMMARY

DATE: 05/03/2002

PATENT APPLICATION: US/10/004,860

TIME: 15:28:44

Input Set : N:\Crif3\RULE60\10004860.raw

Output Set: N:\CRF3\05032002\J004860.raw

Seq#:71; N Pos. 884
Seq#:72; N Pos. 584
Seq#:74; N Pos. 20,92,886
Seq#:76; N Pos. 12,27,30,35,76
Seq#:81; N Pos. 38,41,1128,1129,1440
Seq#:82; N Pos. 1379
Seq#:86; N Pos. 1020,1024,1032
Seq#:87; N Pos. 805
Seq#:90; N Pos. 12,123,1522,1527
Seq#:92; N Pos. 62,126
Seq#:96; N Pos. 416,471,490,732,835
Seq#:97; N Pos. 332
Seq#:99; N Pos. 24,39,255
Seq#:104; N Pos. 544,774
Seq#:106; N Pos. 724
Seq#:107; N Pos. 1,6
Seq#:109; N Pos. 19,21,47,607,610
Seq#:110; N Pos. 67,2620
Seq#:111; N Pos. 1579,2226
Seq#:112; N Pos. 123,621,640
Seq#:115; N Pos. 79,2297,3679
Seq#:116; N Pos. 51,476,1136
Seq#:119; N Pos. 147,376,395,1101
Seq#:121; N Pos. 2605
Seq#:123; N Pos. 1445,1515,1520,1535
Seq#:124; N Pos. 498,499
Seq#:125; N Pos. 1286
Seq#:126; N Pos. 159,1123,1510
Seq#:127; N Pos. 495
Seq#:128; N Pos. 273,294
Seq#:129; N Pos. 1152
Seq#:130; N Pos. 2,471,472
Seq#:131; N Pos. 132,225,249,577,1933
Seq#:132; N Pos. 657,852,859,962
Seq#:134; N Pos. 349,409
Seq#:137; N Pos. 248,1004,1014
Seq#:138; N Pos. 58,118,237,661
Seq#:140; N Pos. 404
Seq#:141; N Pos. 623,626,638
Seq#:142; N Pos. 901
Seq#:143; N Pos. 268,284
Seq#:144; N Pos. 929
Seq#:145; N Pos. 265,354,1064,1081
Seq#:146; N Pos. 1126,4015
Seq#:147; N Pos. 1053
Seq#:149; N Pos. 604,842,1079,1334
Seq#:150; N Pos. 45
Seq#:151; N Pos. 73,90,128,219,255,272,2354,2364
Seq#:152; N Pos. 105,730,755,757,777

VARIABLE LOCATION SUMMARY

DATE: 05/03/2002

PATENT APPLICATION: US/10/004,860

TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw

Output Set: N:\CRF3\05032002\J004860.raw

Seq#:153; N Pos. 77,437
Seq#:157; N Pos. 312,1212
Seq#:158; N Pos. 44,1066
Seq#:159; N Pos. 334,505,1044,1670,1678,1683,1684
Seq#:160; N Pos. 19,62,1793,1834
Seq#:161; N Pos. 744
Seq#:163; N Pos. 720,730,736,741
Seq#:165; N Pos. 101,1670,2134,2135
Seq#:167; N Pos. 522,752
Seq#:168; N Pos. 161
Seq#:171; N Pos. 1961,1999
Seq#:175; N Pos. 44,1881
Seq#:176; N Pos. 407,408,1331
Seq#:177; N Pos. 446,470,1024
Seq#:179; N Pos. 622
Seq#:181; N Pos. 35,45,135
Seq#:185; N Pos. 1337
Seq#:190; N Pos. 144,145
Seq#:191; N Pos. 561,1414,1422,1427
Seq#:192; N Pos. 13,1324,1643
Seq#:193; N Pos. 112,147
Seq#:194; N Pos. 283,301,349,438
Seq#:197; N Pos. 675,1195
Seq#:199; N Pos. 1310,1736,1737
Seq#:204; N Pos. 31,50,132,751
Seq#:205; N Pos. 264,340
Seq#:208; N Pos. 422,847,856,872
Seq#:210; N Pos. 750
Seq#:211; N Pos. 200
Seq#:212; N Pos. 420,1017,1408,1423
Seq#:214; N Pos. 450,451,454,1485,1492
Seq#:215; N Pos. 7,9,1241,1247
Seq#:216; N Pos. 1281,1704
Seq#:222; N Pos. 241,954,961
Seq#:223; N Pos. 1351
Seq#:224; N Pos. 1,705,706,707
Seq#:226; N Pos. 773
Seq#:227; N Pos. 344
Seq#:228; N Pos. 462,469
Seq#:229; N Pos. 303,392
Seq#:230; N Pos. 1,1921,1927
Seq#:231; N Pos. 1032,1034
Seq#:232; N Pos. 438,741
Seq#:234; N Pos. 775,2080,2083
Seq#:235; N Pos. 2058,2080,2115,2132
Seq#:236; N Pos. 528,552,1133
Seq#:240; N Pos. 651,1064
Seq#:241; N Pos. 830
Seq#:242; N Pos. 2,4,16,1810,1811

VARIABLE LOCATION SUMMARY

DATE: 05/03/2002

PATENT APPLICATION: US/10/004,860

TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw

Output Set: N:\CRF3\05032002\J004860.raw

Seq#:243; N Pos. 553,2267,2269,2271
Seq#:244; N Pos. 2459,2473,2475,2478
Seq#:245; N Pos. 133,867,1338
Seq#:246; N Pos. 651
Seq#:247; N Pos. 20,35,36,37
Seq#:248; N Pos. 776,907,1288
Seq#:249; Xaa Pos. 31
Seq#:250; Xaa Pos. 36,78,116
Seq#:251; Xaa Pos. 103
Seq#:252; Xaa Pos. 7,13,22
Seq#:253; Xaa Pos. 32,37
Seq#:254; Xaa Pos. 4,12,128
Seq#:255; Xaa Pos. 8,67
Seq#:256; Xaa Pos. 69
Seq#:257; Xaa Pos. 36,37,44
Seq#:258; Xaa Pos. 51
Seq#:259; Xaa Pos. 43
Seq#:260; Xaa Pos. 61
Seq#:261; Xaa Pos. 36
Seq#:262; Xaa Pos. 38
Seq#:263; Xaa Pos. 5,211
Seq#:264; Xaa Pos. 548
Seq#:266; Xaa Pos. 8,40
Seq#:267; Xaa Pos. 99
Seq#:268; Xaa Pos. 131
Seq#:269; Xaa Pos. 14,19,21
Seq#:270; Xaa Pos. 109,118,122,127
Seq#:271; Xaa Pos. 219
Seq#:272; Xaa Pos. 41,48,50
Seq#:273; Xaa Pos. 7,20,122
Seq#:274; Xaa Pos. 53,88
Seq#:275; Xaa Pos. 26
Seq#:276; Xaa Pos. 29
Seq#:277; Xaa Pos. 14,44
Seq#:278; Xaa Pos. 307,363
Seq#:279; Xaa Pos. 128
Seq#:280; Xaa Pos. 54
Seq#:282; Xaa Pos. 26
Seq#:285; Xaa Pos. 6,38,49
Seq#:286; Xaa Pos. 52
Seq#:287; Xaa Pos. 32
Seq#:288; Xaa Pos. 52,57
Seq#:289; Xaa Pos. 22
Seq#:290; Xaa Pos. 51
Seq#:292; Xaa Pos. 44,66
Seq#:293; Xaa Pos. 75,187,229,232,235,236,237,257
Seq#:294; Xaa Pos. 78,80,81,82,103
Seq#:295; Xaa Pos. 33
Seq#:296; Xaa Pos. 10,43

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Output Set: N:\CRF3\05032002\J004860.raw

Seq#:297; Xaa Pos. 21
Seq#:298; Xaa Pos. 70
Seq#:299; Xaa Pos. 75
Seq#:300; Xaa Pos. 33
Seq#:301; Xaa Pos. 17
Seq#:302; Xaa Pos. 17
Seq#:303; Xaa Pos. 9
Seq#:304; Xaa Pos. 12
Seq#:305; Xaa Pos. 35
Seq#:306; Xaa Pos. 15
Seq#:307; Xaa Pos. 44
Seq#:309; Xaa Pos. 34
Seq#:310; Xaa Pos. 137
Seq#:311; Xaa Pos. 14,37,58
Seq#:312; Xaa Pos. 35
Seq#:313; Xaa Pos. 90
Seq#:314; Xaa Pos. 95
Seq#:315; Xaa Pos. 44
Seq#:316; Xaa Pos. 31
Seq#:317; Xaa Pos. 69,113
Seq#:319; Xaa Pos. 35
Seq#:320; Xaa Pos. 35
Seq#:321; Xaa Pos. 82
Seq#:322; Xaa Pos. 47,70,72
Seq#:323; Xaa Pos. 10,34
Seq#:324; Xaa Pos. 111,112,115
Seq#:325; Xaa Pos. 98,99,100
Seq#:326; Xaa Pos. 36,65
Seq#:328; Xaa Pos. 36
Seq#:329; Xaa Pos. 68
Seq#:330; Xaa Pos. 105
Seq#:332; Xaa Pos. 14,39
Seq#:333; Xaa Pos. 58,72
Seq#:334; Xaa Pos. 62
Seq#:335; Xaa Pos. 286
Seq#:336; Xaa Pos. 55
Seq#:338; Xaa Pos. 120
Seq#:339; Xaa Pos. 33
Seq#:341; Xaa Pos. 18
Seq#:342; Xaa Pos. 87
Seq#:343; Xaa Pos. 538
Seq#:344; Xaa Pos. 202
Seq#:347; Xaa Pos. 48
Seq#:348; Xaa Pos. 288,334
Seq#:349; Xaa Pos. 4,193,200
Seq#:350; Xaa Pos. 24
Seq#:351; Xaa Pos. 85,131,143
Seq#:352; Xaa Pos. 95
Seq#:353; Xaa Pos. 38

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Seq#:354; Xaa Pos. 39
Seq#:355; Xaa Pos. 35,71
Seq#:357; Xaa Pos. 50,53,59,60,61,64,65,90
Seq#:358; Xaa Pos. 41
Seq#:359; Xaa Pos. 56
Seq#:360; Xaa Pos. 4,222
Seq#:361; Xaa Pos. 64
Seq#:362; Xaa Pos. 111,124,125,135,144,154
Seq#:363; Xaa Pos. 17
Seq#:364; Xaa Pos. 10
Seq#:365; Xaa Pos. 14
Seq#:366; Xaa Pos. 5,6,7,10,18
Seq#:367; Xaa Pos. 62
Seq#:368; Xaa Pos. 33
Seq#:369; Xaa Pos. 79
Seq#:370; Xaa Pos. 35
Seq#:371; Xaa Pos. 22
Seq#:372; Xaa Pos. 82
Seq#:373; Xaa Pos. 7,42,43
Seq#:374; Xaa Pos. 4,7,20,25,28,31
Seq#:375; Xaa Pos. 32,57
Seq#:376; Xaa Pos. 14
Seq#:378; Xaa Pos. 45
Seq#:379; Xaa Pos. 15
Seq#:380; Xaa Pos. 34
Seq#:381; Xaa Pos. 14,62
Seq#:382; Xaa Pos. 207
Seq#:383; Xaa Pos. 20,23,31
Seq#:384; Xaa Pos. 43
Seq#:385; Xaa Pos. 255
Seq#:386; Xaa Pos. 2,20
Seq#:387; Xaa Pos. 6,64
Seq#:388; Xaa Pos. 40
Seq#:389; Xaa Pos. 35
Seq#:390; Xaa Pos. 11
Seq#:391; Xaa Pos. 64
Seq#:392; Xaa Pos. 19
Seq#:394; Xaa Pos. 17
Seq#:395; Xaa Pos. 84
Seq#:396; Xaa Pos. 19,21
Seq#:397; Xaa Pos. 29
Seq#:398; Xaa Pos. 34
Seq#:399; Xaa Pos. 47
Seq#:400; Xaa Pos. 21,25
Seq#:401; Xaa Pos. 68
Seq#:403; Xaa Pos. 15
Seq#:405; Xaa Pos. 68,72,83,103,110,121,123,126,134,154
Seq#:408; Xaa Pos. 447
Seq#:410; Xaa Pos. 24

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Seq#:411; Xaa Pos. 35
Seq#:413; Xaa Pos. 25
Seq#:414; Xaa Pos. 79
Seq#:415; Xaa Pos. 20,28
Seq#:416; Xaa Pos. 100
Seq#:417; Xaa Pos. 144,263
Seq#:418; Xaa Pos. 33
Seq#:419; Xaa Pos. 53,80
Seq#:420; Xaa Pos. 82,83,95
Seq#:423; Xaa Pos. 29,31
Seq#:424; Xaa Pos. 179
Seq#:429; Xaa Pos. 61,105,117,219
Seq#:430; Xaa Pos. 51
Seq#:431; Xaa Pos. 27,50
Seq#:432; Xaa Pos. 33,39,55,70
Seq#:433; Xaa Pos. 40
Seq#:435; Xaa Pos. 38
Seq#:436; Xaa Pos. 35
Seq#:437; Xaa Pos. 32
Seq#:438; Xaa Pos. 127
Seq#:439; Xaa Pos. 10,69
Seq#:440; Xaa Pos. 92
Seq#:441; Xaa Pos. 264,296,380
Seq#:442; Xaa Pos. 17,21,23,24
Seq#:443; Xaa Pos. 33,47
Seq#:445; Xaa Pos. 144
Seq#:446; Xaa Pos. 37
Seq#:447; Xaa Pos. 31,37
Seq#:448; Xaa Pos. 47,192
Seq#:449; Xaa Pos. 31
Seq#:450; Xaa Pos. 44,46,77,78,101
Seq#:451; Xaa Pos. 37
Seq#:452; Xaa Pos. 42
Seq#:454; Xaa Pos. 25
Seq#:456; Xaa Pos. 42
Seq#:457; Xaa Pos. 15,66
Seq#:459; Xaa Pos. 31
Seq#:460; Xaa Pos. 57
Seq#:461; Xaa Pos. 338,416
Seq#:462; Xaa Pos. 56
Seq#:463; Xaa Pos. 80,93,206
Seq#:464; Xaa Pos. 38
Seq#:465; Xaa Pos. 136
Seq#:466; Xaa Pos. 17,18,25,50
Seq#:467; Xaa Pos. 27,49,71
Seq#:468; Xaa Pos. 59
Seq#:469; Xaa Pos. 27,34,35,37,38,46,59
Seq#:470; Xaa Pos. 17,62
Seq#:471; Xaa Pos. 103,302,305,316

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Output Set: N:\CRF3\05032002\J004860.raw

Seq#:472; Xaa Pos. 24
Seq#:473; Xaa Pos. 10
Seq#:474; Xaa Pos. 36,44,85
Seq#:475; Xaa Pos. 26
Seq#:476; Xaa Pos. 34
Seq#:477; Xaa Pos. 151,172
Seq#:478; Xaa Pos. 8,27,61
Seq#:479; Xaa Pos. 3
Seq#:480; Xaa Pos. 11,35,38,96
Seq#:481; Xaa Pos. 159,171
Seq#:482; Xaa Pos. 111,575
Seq#:483; Xaa Pos. 29,31,43,92
Seq#:484; Xaa Pos. 13,14
Seq#:485; Xaa Pos. 54
Seq#:486; Xaa Pos. 7,11,16,22
Seq#:490; Xaa Pos. 9
Seq#:491; Xaa Pos. 5
Seq#:492; Xaa Pos. 87,95
Seq#:494; Xaa Pos. 37,45
Seq#:504; Xaa Pos. 39,40,112
Seq#:505; Xaa Pos. 65
Seq#:506; Xaa Pos. 39,40
Seq#:508; Xaa Pos. 17
Seq#:514; Xaa Pos. 18
Seq#:520; Xaa Pos. 4
Seq#:521; Xaa Pos. 4
Seq#:545; Xaa Pos. 10,17
Seq#:547; Xaa Pos. 8,34,38
Seq#:548; Xaa Pos. 8,34,38
Seq#:551; Xaa Pos. 16,17,20,24,36,43
Seq#:552; Xaa Pos. 31
Seq#:553; Xaa Pos. 68,124,211
Seq#:554; Xaa Pos. 35
Seq#:558; Xaa Pos. 320,334,337,339,341,345,350,352,355,360
Seq#:563; Xaa Pos. 36
Seq#:573; Xaa Pos. 409
Seq#:579; Xaa Pos. 19
Seq#:587; Xaa Pos. 23,35
Seq#:588; Xaa Pos. 25,40,42,174,186
Seq#:589; Xaa Pos. 44,81,125,142
Seq#:613; Xaa Pos. 35,71
Seq#:615; Xaa Pos. 43,155
Seq#:621; Xaa Pos. 30,31,34,37
Seq#:627; Xaa Pos. 77
Seq#:629; Xaa Pos. 22
Seq#:633; Xaa Pos. 56,57,60,83,84,165
Seq#:635; Xaa Pos. 77
Seq#:637; Xaa Pos. 7
Seq#:639; Xaa Pos. 15

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Input Set : N:\Cr3\RULE60\10004860.raw

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Seq#:644; Xaa Pos. 105,115
Seq#:647; Xaa Pos. 8,13
Seq#:652; Xaa Pos. 131,145
Seq#:659; Xaa Pos. 10
Seq#:667; Xaa Pos. 105
Seq#:672; Xaa Pos. 8,145
Seq#:677; Xaa Pos. 87
Seq#:688; Xaa Pos. 12
Seq#:689; Xaa Pos. 61
Seq#:690; Xaa Pos. 56
Seq#:699; Xaa Pos. 83
Seq#:703; Xaa Pos. 27,28,29,30,31,32,33,34,35,36,37,38
Seq#:711; Xaa Pos. 29
Seq#:713; Xaa Pos. 76,80,90,98,113
Seq#:718; N Pos. 24
Seq#:728; Xaa Pos. 8
Seq#:729; Xaa Pos. 46,50
Seq#:730; Xaa Pos. 34,38
Seq#:733; Xaa Pos. 127
Seq#:736; Xaa Pos. 48
Seq#:758; Xaa Pos. 26
Seq#:762; Xaa Pos. 67,86
Seq#:767; Xaa Pos. 17
Seq#:769; Xaa Pos. 46
Seq#:770; Xaa Pos. 27,38
Seq#:780; Xaa Pos. 45,46,47
Seq#:781; Xaa Pos. 34,66,79
Seq#:784; Xaa Pos. 90
Seq#:787; Xaa Pos. 43,60
Seq#:788; Xaa Pos. 41,97,103
Seq#:790; Xaa Pos. 8
Seq#:791; Xaa Pos. 7
Seq#:792; Xaa Pos. 2,24,45,46
Seq#:793; Xaa Pos. 53
Seq#:808; Xaa Pos. 48,55
Seq#:809; Xaa Pos. 5
Seq#:811; Xaa Pos. 72
Seq#:812; Xaa Pos. 16,38
Seq#:815; Xaa Pos. 72,111,127,149
Seq#:817; Xaa Pos. 12,28,50
Seq#:878; Xaa Pos. 197
Seq#:879; Xaa Pos. 178
Seq#:904; Xaa Pos. 16,27,65
Seq#:905; Xaa Pos. 7
Seq#:907; Xaa Pos. 4
Seq#:938; Xaa Pos. 21
Seq#:940; Xaa Pos. 124
Seq#:941; Xaa Pos. 47
Seq#:944; Xaa Pos. 124,178

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Seq#:945; Xaa Pos. 10
Seq#:958; Xaa Pos. 10
Seq#:959; Xaa Pos. 10
Seq#:965; Xaa Pos. 25,26,90,94,105,120
Seq#:966; Xaa Pos. 25,26
Seq#:968; Xaa Pos. 11,15,26,41
Seq#:971; Xaa Pos. 2,3,4
Seq#:975; Xaa Pos. 37
Seq#:977; Xaa Pos. 14
Seq#:978; Xaa Pos. 29
Seq#:999; Xaa Pos. 19,62
Seq#:1002; Xaa Pos. 19
Seq#:1003; Xaa Pos. 33
Seq#:1007; Xaa Pos. 20,63
Seq#:1008; Xaa Pos. 259,312
Seq#:1010; Xaa Pos. 135
Seq#:1011; Xaa Pos. 65,118
Seq#:1012; Xaa Pos. 15,258
Seq#:1015; Xaa Pos. 42
Seq#:1017; Xaa Pos. 34,46,47,65
Seq#:1036; Xaa Pos. 189
Seq#:1039; Xaa Pos. 63
Seq#:1041; Xaa Pos. 96,97,98,99,100,101,102,103,104,105,106,107,108,109,110
Seq#:1041; Xaa Pos. 111,112,130
Seq#:1043; Xaa Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,46
Seq#:1056; Xaa Pos. 130
Seq#:1058; Xaa Pos. 42
Seq#:1059; Xaa Pos. 130
Seq#:1060; Xaa Pos. 112
Seq#:1079; Xaa Pos. 152,314,359
Seq#:1081; Xaa Pos. 42
Seq#:1082; Xaa Pos. 75
Seq#:1083; Xaa Pos. 8
Seq#:1084; Xaa Pos. 10
Seq#:1085; Xaa Pos. 64
Seq#:1088; Xaa Pos. 94
Seq#:1092; Xaa Pos. 73
Seq#:1094; Xaa Pos. 83,136
Seq#:1097; Xaa Pos. 11,28,67
Seq#:1103; Xaa Pos. 112,231
Seq#:1108; Xaa Pos. 25
Seq#:1109; Xaa Pos. 53
Seq#:1112; Xaa Pos. 28
Seq#:1115; Xaa Pos. 16,24
Seq#:1116; Xaa Pos. 11,15,35,36,39,40,45,91,255,256,257,258
Seq#:1117; Xaa Pos. 52,164,209,210,211
Seq#:1118; Xaa Pos. 151,197,198,202,203,206,207,227
Seq#:1135; Xaa Pos. 50
Seq#:1136; Xaa Pos. 16

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Seq#:1152; Xaa Pos. 21,22
Seq#:1159; Xaa Pos. 103,153
Seq#:1161; Xaa Pos. 22
Seq#:1162; Xaa Pos. 109,159
Seq#:1169; Xaa Pos. 22,34,102
Seq#:1170; Xaa Pos. 22
Seq#:1171; Xaa Pos. 22
Seq#:1172; Xaa Pos. 22
Seq#:1173; Xaa Pos. 22
Seq#:1174; Xaa Pos. 22
Seq#:1180; Xaa Pos. 114,182,194
Seq#:1202; Xaa Pos. 49,50,51,52,53

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Input Set : N:\Crf3\RULE60\10004860.raw

Output Set: N:\CRF3\05032002\J004860.raw

L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:780
L:424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:60
L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:480
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:420
L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:660
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480
L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:600
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:900
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:1440
L:700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:300
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:780
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1020
L:872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:1860
L:873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:1920
L:887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:60
L:1038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:3660
L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:1620
L:1122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:1380
L:1156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:660
L:1209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:3180
L:1243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:900
L:1244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:960
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:1740
L:1321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:840
L:1386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:780
L:1456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:780
L:1471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:60
L:1552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:180
L:1554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:300
L:1558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:540
L:1564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:900
L:1611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:1800
L:1667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:960
L:1766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:540
L:1791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:2040
L:1816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:1825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:540
L:1883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:1440
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:2007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:1500
L:2082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:720
L:2084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:840

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L:2085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:900
L:2120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:300
L:22064 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=656
L:22082 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=657
L:22100 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=658
L:22244 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=666
L:23299 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:711
L:23459 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=718